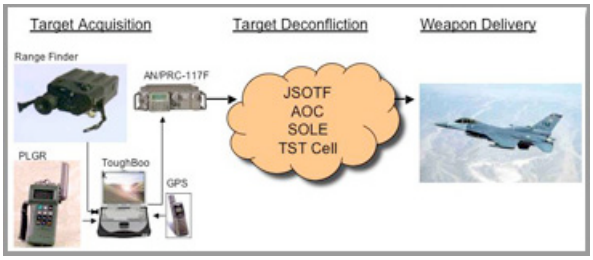
DoD IACs Information Analysis Centers

DDRE

Machine-to-Machine Targeting of Time-Sensitive Targets



Miscalculated and non-validated targeting of time-sensitive targets have resulted in missed opportunities and, all-too-often, produced combat tragedies. U.S. Air Force personnel performing Close Air Support are called on to transmit target coordinates, often while under intense fire. Too often, human injected errors occur in accurately identifying the targets and transmitting their coordinates. The errors have resulted in weapon delivery delays and/or weapons being delivered to U.S. soldier and friendly force positions, causing senseless casualties and injuries. There is a better way and it is affordable and actionable now!

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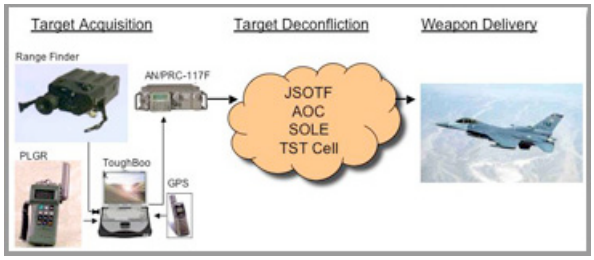
Machine-to-Machine Targeting of Time-Sensitive Targets (continued)



The Air Force Research Laboratory, working with the Data and Analysis Center for Software (DACS), NavAir, Electronic Systems Center, Air Force Special Operations Command, and Aeronautical Systems Center, has designed, developed, tested, demonstrated and fielded a digital system that reduces the human error from ground force target identification, improves accuracy, and expedites weapon delivery. As shown in the figure, the digitally connected system integrates sensors already in use (Laser Range Finder, GPS Unit, Mark VIII (MVII) to shooter (e.g., F-15E), via the applicable situational awareness network (e.g., SADL, JTIDS). The result is an end-to-end system that, with human approval, accurately identifies the target, communicates the coordinates to the decision makers, and digitally links the approved and validated target ID to the weapon delivery platform.

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